

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

Claims 1-22 (canceled).

23. (currently amended): A method of registering an address and a domain name, the method comprising:

(a) receiving a first message including a first address and a first domain name of a first host from the first host;

(b) determining whether there is a second host with at least one of a second address and a second domain name duplicative with at least one of the first address and the second domain name included in the received first message; and

(c) registering the first address and the first domain name included in the first message as an address and a domain name of the first host, according to a determined result,

wherein the first message is a neighbor solicitation (NS) message requiring a duplicate address detection (DAD).

24. (previously presented): The method of claim 23, wherein operation (c) comprises: if the second host does not exist on the network, storing the first address and the first domain name included in the received message in a predetermined area, thereby registering the address and the domain name included in the received message.

25. (previously presented): The method of claim 24, wherein the method is performed by a DNS (Domain Name Server) if the DNS exists, and wherein the predetermined area is a DNS file area.

26. (currently amended): A method of registering an address and a domain name, the method comprising:

(a) receiving a first message including a first address and a first domain name of a first host from the first host;

(b) determining whether there is a second host with at least one of a second address and a second domain name duplicative with at least one of the first address and the second domain name included in the received first message; and

(c) registering the first address and the first domain name included in the first message as an address and a domain name of the first host, according to a determined result, wherein operation (c) comprises:

if the second host does not exist on the network, storing the first address and the first domain name included in the received message in a predetermined area, thereby registering the address and the domain name included in the received message, ~~and~~

wherein the method is performed by a plurality of different hosts connected on a network if no DNS (Domain Name Server) exists, and wherein the predetermined area is a storage area of the plurality of different hosts, and

wherein the first message is a neighbor solicitation (NS) message requiring a duplicate address detection (DAD).

27. (previously presented): The method of claim 23, wherein the first address is an IPv6 (IP version 6) address and the first message is a message requiring a DAD (Duplicate Address Detection).

28. (previously presented): The method of claim 23, wherein the first message includes: a target address field storing the first address of the host; and an option field storing the first domain name of the host.

29. (currently amended): A method of registering an address and a domain name, the method comprising:

(a) receiving a first message including a first address and a first domain name of a first host from the first host;

(b) determining whether there is a second host with at least one of a second address and a second domain name duplicative with at least one of the first address and the second domain name included in the received first message;

(c) registering the first address and the first domain name included in the first message as an address and a domain name of the first host, according to a determined result;

(d) in operation (b), if it is determined that the second host exists, determining which of the second address and the second domain name is duplicative; and

(e) in operation (d), if it is determined that the second address is duplicative, transmitting a second message requiring a change of the first address, to the first host,

wherein the first message is a neighbor solicitation (NS) message requiring a duplicate address detection (DAD).

30. (previously presented): The method of claim 29, wherein the second message includes:

a target address field storing the address of the first host; and

an option field storing a MAC address of the first host.

31. (currently amended): The method of claim 23, further comprising:

(d) in operation (b), if it is determined that the second host exists, determining which of the second address and the second domain name is duplicative; and

(e) in operation (D), if it is determined that the second domain name is duplicative, transmitting a second message requiring a change of the first domain name to the first host.

32. (previously presented): The method of claim 31, wherein the second message includes:

- a target address field storing the first address of the first host;
- an option field storing the first domain name of the first host; and
- a flag storing a predetermined value to change the first domain name.

33. (currently amended): A method allowing a host to request registration of an address and a domain name of the host, comprising:

- (a) transmitting a message including the address and the domain name of the host from the host to a domain name server (DNS), thus requesting the registration;
- (b) receiving a response message for the request according to whether at least one of the address and domain name of the host is duplicative; and
- (c) changing the at least one of the address and the domain name of the host according to whether or not the response message is received,

wherein the message is a neighbor solicitation (NS) message requiring a duplicate address detection (DAD).

34. (previously presented): The method of claim 33, further comprising:

- (d) transmitting a message including at least one of a changed address and a changed domain name, thus requesting the registration.

35. (currently amended): A method allowing a host to request registration of an address and a domain name of the host, comprising:

- (a) transmitting a message including the address and the domain name of the host, thus requesting the registration;
- (b) receiving a response message for the request according to whether at least one of the address and domain name of the host is duplicative; and

(c) changing the at least one of the address and the domain name of the host according to whether or not the response message is received,

wherein, in operation (b), if a DNS exists on a network, the response message is received from the DNS, and if no DNS exists on the network, the response message is received from a plurality of different hosts connected on the network,

wherein the message is a neighbor solicitation (NS) message requiring a duplicate address detection (DAD).

36. (previously presented): The method of claim 33, wherein the address is an IPv6 (IP version 6) address, and the message is a message requesting DAD (Duplicate Address Detection).

37. (previously presented): The method of claim 33, wherein the message includes:
a target address field storing the address of the host; and
an option field storing the domain name of the host.

38. (currently amended): A method allowing a host to request registration of an address and a domain name of the host, comprising:

(a) transmitting a message including the address and the domain name of the host, thus requesting the registration;

(b) receiving a response message for the request according to whether at least one of the address and domain name of the host is duplicative; and

(c) changing the at least one of the address and the domain name of the host according to whether or not the response message is received,

wherein in operation (c), if a first response message requesting a change of the address is received in operation (b), the address of the host is changed,

wherein the message is a neighbor solicitation (NS) message requiring a duplicate address detection (DAD).

39. (previously presented): The method of claim 38, wherein the first response message includes:

- a target address field storing the address of the host; and
- an option field storing a MAC address of the host.

40. (previously presented): The method of claim 33, wherein, in operation (c), if a first response message requesting a change of the domain name is received in operation (b), the domain name of the host is changed.

41. (previously presented): The method of claim 40, wherein the first response message includes:

- a target address field storing the address of the host;
- an option field storing the domain name of the host; and
- a flag storing a predetermined value to change the domain name.

42. (previously presented): A computer-readable medium having embodied thereon a computer program for executing the method of any one of claims 23 through 41.